AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1-27 (Canceled)
- 28. (New) A method for preparing an unsaturated carboxylic acid from the corresponding aldehyde, comprising the steps of:
 - a) oxidizing said aldehyde, in a controlled basic medium and using molecular oxygen or a gas containing it, in the presence of a catalyst based on palladium and/or platinum and of an activator based on bismuth, under conditions such that the oxidation occurs in a diffusion mode, and
 - b) recovering the carboxylic acid formrd in step a).
- 29. (New) The method as claimed in claim 28, wherein the starting aldehyde is an aliphatic or cycloaliphatic aldehyde having at least one unsaturation, a double bond or a triple bond.
- 30. (New) The method as claimed in claim 29, wherein the starting aldehyde is an aliphatic aldehyde having two double bonds of which at least one is conjugated with the carbonyl group.
- 31. (New) The method as claimed in claim 30, wherein the starting aldehyde is a terpene aldehyde.
- 32. (New) The method as claimed in claim 28, wherein the starting aldehyde corresponds to formula (I):

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A-CHO (I)

wherein:

A represents a hydrocarbon group having at least one unsaturation having from 4 to 19 carbon atoms which is a linear or branched, saturated or unsaturated acyclic aliphatic group; a monocyclic or polycyclic, saturated or unsaturated or aromatic carbocyclic group; a linkage of a saturated or unsaturated aliphatic group and/or of a saturated, unsaturated or aromatic carbocycle.

- 33. (New) The method as claimed in claim 32, wherein A represents a linear or branched acyclic aliphatic group having from 4 to 19 carbon atoms having one or more unsaturations in the chain, which are single or conjugated double bonds or triple bonds, said unsaturation being at the chain end and/or alternatively inside the chain and/or conjugated with the CO group.
- 34. (New) The method as claimed in claim 33, wherein A represents a linear or branched alkyl group having from 4 to 19 carbon atoms and having at least one double bond, optionally two double bonds of which at least one is conjugated with the CO group.
- 35. (New) The method as claimed in claim 32, wherein A represents a carbocycle having from 3 to 8 carbon atoms in the ring, optionally 5 or 6 and having 1 or 2 unsaturations in the ring, optionally 1 or 2 double bonds.
- 36. (New) The method as claimed in claim 35, wherein A represents a cycloalkyl group having 5 or 6 carbon atoms and having a double bond.
- 37. (New) The method as claimed in claim 32, wherein A represents a polycyclic

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carbocyclic group having from 3 to 6 carbon atoms in each ring and of which at least one of the rings presents one unsaturation, optionally the other ring being saturated or aromatic.

- 38. (New) The method as claimed in claim 28, wherein the starting aldehyde is citral, prenal, retinal, cyclocitral, or safranal.
- 39. (New) The method as claimed in claim 28, wherein the platinum and/or palladium catalyst is provided in the form of platinum black, palladium black, platinum oxide, palladium oxide or the noble metal itself deposited on a support.
- 40. (New) The method as claimed in claim 28, wherein the catalyst is used in a quantity, expressed by weight of metal M₁ relative to that of the compound of formula (I), of from 0.001 to 10%.
- 41. (New) The method as claimed in claim 28, wherein the activator is an organic or inorganic derivative of bismuth chosen from the group consisting of: bismuth oxides; bismuth hydroxides; bismuth salts of inorganic hydracids; bismuth salts of inorganic oxyacids, bismuthyl salts of inorganic oxyacids; bismuth salts of aliphatic or aromatic organic acids; and bismuthyl salts of aliphatic or aromatic organic acids.
- 42. (New) The method as claimed in claim 41, wherein the bismuth derivative is chosen from the group consisting of: bismuth oxides Bi₂O₃ and Bi₂O₄; bismuth hydroxide Bi(OH)₃; bismuth chloride BiCl₃; bismuth bromide BiBr₃; bismuth iodide BiL₃; neutral bismuth sulfate Bi₂(SO₄)₃; neutral bismuth nitrate

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 $Bi(NO_3)_3 \cdot 5H_2O$; bismuthyl carbonate $(BiO)_2CO_3 \cdot 0.5H_2O$; bismuth acetate $Bi(C_2H_3O_2)_3$: and bismuthyl salicylate $C_6H_4CO_2(BiO)OH$.

- 43. (New) The method as claimed in claim 42, wherein the activator is in a quantity expressed by weight of bismuth relative to the weight of the metal M₁ of between 1 and 200%.
- 44. (New) The method as claimed in claim 28, wherein the basic agent is sodium hydroxide or potassium hydroxide.
- 45. (New) The method as claimed in claim 28, wherein the quantity of base added into the reaction medium is such the number of moles of OH- and the number of moles of aldehyde are in a ratio of between 0.9 and 1.1.
- 46. (New) The method as claimed in claim 28, wherein water is present in the reaction medium in a quantity sufficient to solubilize the salt of the acid formed.
- 47. (New) The method as claimed in claim 28, wherein the oxidation takes place at a temperature of between 20°C and 60°C.
- 48. (New) The method as claimed in claim 28, being carried out at atmospheric pressure.
- 49. (New) The method as claimed in claim 28, being carried out under stirring conditions which are such that the reaction mode is a diffusion mode.
- 50. (New) The method as claimed in claim 46, wherein the water, the basic agent, the catalyst based on palladium and/or platinum, the activator, and then finally the aldehyde to be oxidized, are being added.

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- 51. (New) The method as claimed in claim 50, wherein the metal M₁ is reduced with formalin.
- 52. (New) The method as claimed in claim 50, wherein the reaction mixture maintained under a stream of inert gas is heated to the desired reaction temperature and then oxygen or a gas containing it is introduced.
- 53. (New) The method as claimed in claim 52, wherein the medium is stirred at the desired temperature until a quantity of oxygen corresponding to that necessary to convert the formyl group to a carboxyl group is consumed.
- 54. (New) The method as claimed in claim 28, wherein in step b) the carboxylic acid formed a) is recovered after an acid treatment.